

Title (en)
DISPLAY SYSTEM WITH VIDEO SEE-THROUGH

Title (de)
ANZEIGESYSTEM MIT VIDEODURCHBLICK

Title (fr)
SYSTÈME D'AFFICHAGE À TRANSPARENCE VIDÉO

Publication
EP 3590098 A1 20200108 (EN)

Application
EP 18761591 A 20180228

Priority
• IL 25086917 A 20170301
• IL 2018050222 W 20180228

Abstract (en)
[origin: WO2018158765A1] A display system with video see-through eye display unit is disclosed. The eye display unit includes: at least one camera unit; at least one image forming module; and an optical deflection module including at least one double sided light reflecting optical element which is at least partially reflecting to light arriving from both sides thereof. The camera unit is configured for collecting light arriving from a region of interest of a scene along a first optical path intersecting the optical deflection module, and generating image data indicative of the region of interest. The image forming module is configured for receiving imagery data indicative of images to be projected to an eye of a user, and generating and projecting the received images to propagate along a second optical path intersecting the optical deflection module. The double sided light reflecting optical element of the optical deflection module is arranged in the display system to be located in front of the eye while intersecting the first and second optical paths, and is oriented to define the first optical path (between the camera unit and the scene) and the second optical path (between the image forming unit and the eye), such that the camera unit has a point of view substantially similar to line of sight of the eye.

IPC 8 full level
G06T 19/00 (2011.01); **G02B 27/01** (2006.01)

CPC (source: EP IL KR US)
G02B 27/01 (2013.01 - KR); **G02B 27/0172** (2013.01 - EP IL US); **G06T 19/00** (2013.01 - KR); **G06T 19/006** (2013.01 - IL US);
G02B 2027/0138 (2013.01 - EP US); **G02B 2027/014** (2013.01 - EP); **G02B 2027/0145** (2013.01 - IL US); **G02B 2027/0174** (2013.01 - EP IL US);
G02B 2027/0178 (2013.01 - EP); **G02B 2027/0187** (2013.01 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2018158765 A1 20180907; AU 2018226651 A 20191017; CA 3055143 A 20180907; CN 110709898 A 20200117;
EP 3590098 A1 20200108; EP 3590098 A4 20210120; IL 250869 A0 20170430; IL 250869 B 20210630; JP 2020511687 A 20200416;
KR 20190141656 A 20191224; RU 2019129442 A 20210401; SG 11201907794Y A 20190927; TW 201843494 A 20181216;
US 10890771 B2 20210112; US 2020012107 A1 20200109

DOCDB simple family (application)
IL 2018050222 W 20180228; AU 2018226651 A 20180228; CA 3055143 A 20180228; CN 201880014802 A 20180228;
EP 18761591 A 20180228; IL 25086917 A 20170301; JP 2019547278 A 20180228; KR 20197028317 A 20180228; RU 2019129442 A 20180228;
SG 11201907794Y A 20180228; TW 107106744 A 20180301; US 201816489056 A 20180228